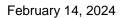
Monthly Operating Report

JANUARY 2024



Rockland, MA WWTP







Mr. Chuck Heshion
Rockland Sewer Commission Chairman
587 Rear Summer Street
Rockland, MA 02370
RE: Rockland Wastewater Facility
Monthly Report—January 2024
Dear Mr. Heshion,
I have enclosed January's 2024 Monthly Operating Report (MOR) for the Veolia Operations and Maintenance contract.
Please contact me if you should you have any questions regarding this report.
Sincerely,
Rick Kotouch
Veolia Project Manager
CC:
Daniel Duross
Sherri Vallie

JANUARY 2024 MONTHLY OPERATING REPORT

1. SUMMARY:

The facility will be reporting 0 exceedance for the month of January 2024

- 1) There was **0** lost time / first aid injuries throughout the month.
- 2) The facility treated a total of 107,794 million gallons. The average daily flow was 3.433 MGD
- 3) The total rainfall for this reporting period was 8.36"
- 4) I&I Work is ongoing
- 5) **181** work orders were closed in January, with **13** as corrective maintenance work order and **6** were emergency call outs
- 6) Massachusetts general wastewater permit began April 1st, 2023

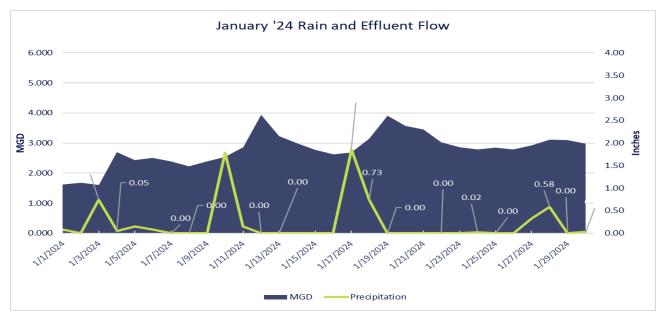
2. STAFFING:

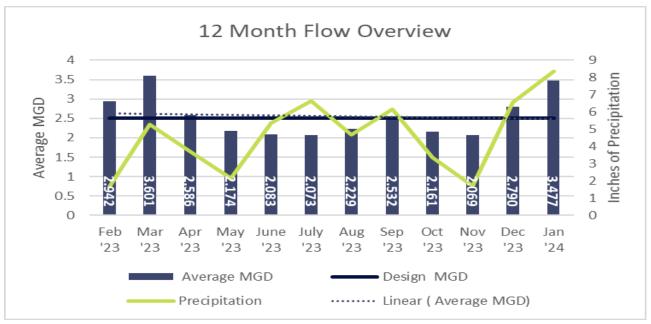
		Curr	ent Employ	ee Licens	ses as of	09/14/20	023			
		Hoisting		Wastewater			NEWEA Collections			NEWEA Laboratory
Employee	Title	1C Forklift	1B Boom Truck & Forklift	3M	5C	7C	I	II	IV	I
Richard Kotouch	Project Manager					Х			Х	
Megan Kelly-Lynch	Asst. Project Manager	Х				Х				
Steven Butts	Lab Technician					Х				Х
Charles Amaral	Maintenance Foreman				Х			Х		
Garry Murrill	Operator				Х			Χ		
Maxwell Jackson	Operator			Х						
Cristian Ryan	Operator									
Michael Hurley	Operator									
Shaun Chaponis (Part Time Weekends)	Operator				Х		Х			

3 FLOWS AND LOADINGS:

3.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of 107,794 MG during the month. The daily average flow was 3.433 MGD. This was 0.833 MGD less than the previous January monthly average, which was recorded at 4.266 MGD. The highest daily flow was recorded on January10th as 4.571 MGD. The lowest daily flow was recorded on January 3rd as 1.598 MGD.
- The highest *peak* flow was recorded on January 10th as **10.000** MGD.
- A total of **8.36**" of precipitation was received at the facility. The highest single day precipitation total was recorded on January 9th as **2.87**".
- The coldest day was January 20th and 21st at 10°F. The warmest day was January 13th at 57°F.



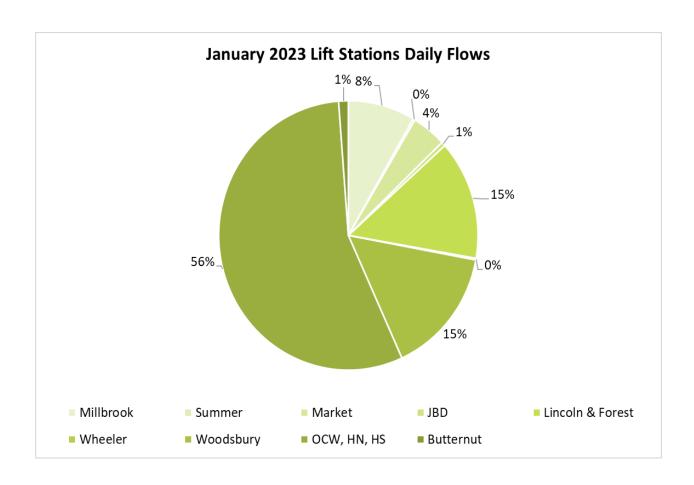


ROCKLAND FLOW AND LOADINGS TRACKING Influent **Effluent Influent Flow Effluent Flow** Month/Yr Flow Moving Avg. Moving Avg. Flow **MGD MGD MGD MGD** Feb '23 2.646 2.577 2.942 2.646 Mar '23 3.601 3.601 2.592 3.123 Apr '23 2.212 2.586 2.577 2.820 May '23 2.497 2.174 2.603 2.658 June '23 2.083 1.735 2.610 2.473 **July '23** 2.404 2.073 2.666 2.407 Aug '23 2.102 2.024 2.706 2.352 Sep '23 2.457 2.532 2.760 2.374 Oct '23 2.114 2.161 2.351 2.73 Nov '23 2.069 2.069 2.711 2.323 Dec '23 3.302 2.79 2.702 2.365 Jan '24 4.11 3.477 2.689 2.458

3.2 LIFT STATION FLOWS

The lift stations accounted for **12,225,122** gallons throughout the month, **11%** of the total plant flow. Please note that monthly lift station flow totals are purely estimates based off of pump run hours and estimated flow rates. Values are not intended to in any way be used as design capacity volumes for potential future rehab / replacement projects.

Tota	l Flows for January 2024									
Total										
Station	Gallons									
Millbrook	1,018,440									
Summer	31,440									
Market	521,999									
John Burke	62,880									
Lincoln, Forest	1,755,602									
Wheeler	23,760									
Woodsbury	1,870,200									
OCW, HN, HS	6,793,200									
Butternut	147,600									
Total:	12,225,122									

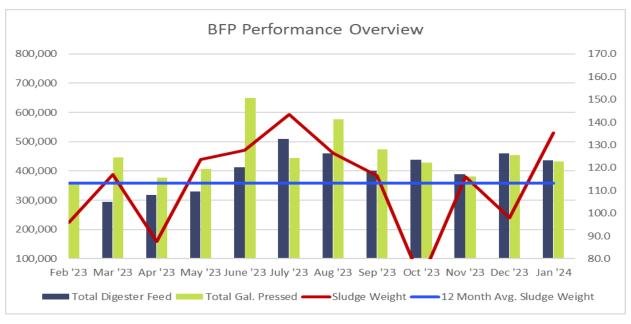


Lift Station Monthly Average Daily Flows (GPD)

Month	Millbrook	Summer	Market	John Burke	Lincoln	Forrest	Wheeler	Woodsbury	Old Country Way	Hingham North	Hingham South	Butternut
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD
Feb '23	44,087	866	13,554	5,186	3,000	52,950	4,899	50,207	58,650	164,565	199,029	3182
Mar '23	48,137	1,029	14,893	3,180	3,879	56,625	868	52,650	69,450	172,221	220,629	4243
Apr '23	46,209	994	15,054	3,180	3,343	57,150	861	52,714	53,325	137,507	170,486	3857
May '23	36,566	874	15,321	4,226	2,786	49,800	784	40,436	52,425	145,800	180,514	2,796
June '23	32,516	831	12,964	2,983	2,250	50,100	746	34,393	49,575	33,264	178,200	2,411
July '23	32,554	960	13,339	2,897	2,721	54,300	778	44,550	54,300	151,971	174,343	2,475
Aug '23	43,894	857	13,875	3,180	3,086	57,600	5,001	58,243	67,200	180,707	219,858	4,146
Sep '23	30,356	857	13,554	1,637	2,679	51,300	765	45,321	52,650	153,900	166,628	2,379
Oct '23	36,720	866	14,250	1,843	2,550	50,850	784	57,343	50,325	145,414	156,986	2,025
Nov '23	30,047	857	13,286	3,137	2,743	58,050	1,080	36,450	46,650	130,757	145,414	2,539
Dec '23	35,833	969	14,411	2,237	2,936	59,250	791	50,079	57,300	153,128	189,000	3,536
Jan¹23	36,373	1,123	18,643	2,246	3,836	62,700	849	66,793	82,050	174,729	242,614	5,271
Average	37,774	924	14,429	2,994	2,984	55,056	1,517	49,098	57,825	145,330	186,975	3,238

4.0 SOLIDS HANDLING

The BFP operated a total of **152.4** hours this month and a total of **432,214** gallons were processed producing **135.3** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **2.27%** and the BFP Cake average percent solids were **20.80%**. The sludge processing Dry Tons conversion sheet is attached to this report.



Date	BFP Run Hours	Total Digester Feed	Total BFP Feed	Polymer Used	Actual Sludge Weight	Average Press Feed Total Solids	Average Cake Total Solids	Sludge Pick Up	Grit Removed
	HRS	Gal.	Gal.	Gal.	Wet Tons	%	%	Dumpster	Tons
Feb '23	134.3	320,572	355,441	115.5	96.1	1.59	18.77	6.00	
Mar '23	147.1	293,999	445,395	128.8	117.1	1.62	18.98	6.00	
Apr '23	123.3	318,169	377,424	105.6	87.5	2.21	20.87	6.00	
May '23	125.6	329,820	407,350	114.4	123.5	2.08	21.52	6.00	
June '23	183.7	411,781	649,427	155.6	127.6	1.88	22.32	8.00	
July '23	128.4	444,319	510,385	109.6	143.6	2.11	21.39	7.00	
Aug '23	161.6	459,960	577,299	128.1	126.3	2.01	22.81	7.00	
Sep '23	142.7	400,268	473,224	113.6	116.4	1.92	22.35	6.00	
Oct '23	127.4	438,575	428,509	112.0	70.5	2.00	22.64	5.00	
Nov '23	132.4	389,377	381,901	108.8	116.0	2.18	22.12	8.00	
Dec '23	150.5	460,829	454,170	137.6	97.9	2.04	21.95	6.00	
Jan '24	152.4	436,721	432,214	123.2	135.3	2.27	20.80	7.00	
Annual Total	1,709	4,704,390	5,492,739	1,453	1,358	****	****	78	0.00
Avg.	142	392,033	457,728	121	113	1.99	21.38	6.5	****

5.0 ENVIRONMENTAL COMPLIANCE

5.1 REGULATORY REPORTING

1. The EPA and MADEP January NETDMR was submitted on the CDX website on 2/9/2024.

5.2 NPDES COMPLIANCE

The facility will be reporting (1) exceedance(s) for the month of January 2024

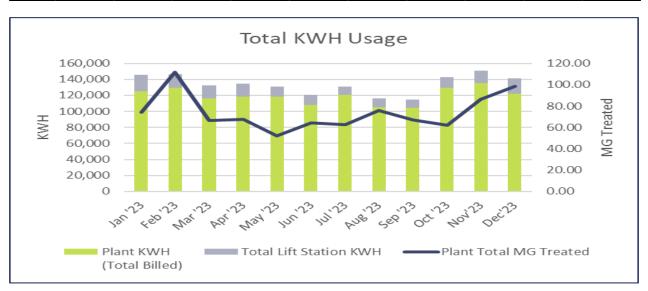
Date	Plant Flow	BOD	BOD	TSS	TSS	NH3	Total P	Ph	E. Coli Coliform	Aluminum	Copper	Dissolved Oxygen	Limits	Monthly Avg.	Weekly Avg.	Daily Max
	MGD	Mg/L	Lbs./Day	Mg/L	Lbs./Day	Mg/L	Mg/L	Ph	CFU/100 ml	Ug/L	Ug/L	Mg/L	BOD			
Mon, Jan 1	2.905	61		61		61	- 61	7.42	,	- 61	- 6/	81	Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/l
Tue, Jan 2	2.919							7.44	326				Aprill 30	417 bs/day	417 lbs/Day	626 lbs/Day
Wed, Jan 3	2.906	9.0	218	6.0	145	0.50	0.13	7.40		5	3.0		May1 -	6 Mg/L	6 Mg/L	10Mg/L
Thu, Jan 4	2.864							7.45					Sept. 30	125 I bs/Dav	125 lbs/Day	209 Lbs/day
Fri, Jan 5	2.700							7.52					TSS	HISHAV	'	TUSAN
Sat, Jan 6	2.575							7.41					Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/l
Sun, Jan 7	2.802							7.32					Aprill 30	417 Lbs/Dav	417 Lhs/Day	626 lbs/Day
Mon, Jan 8	3.113							7.35					May1 -	10 Mg/L	10 Mg/L	15Mg/L
Tue, Jan 9	3.877							7.43	117				Sept. 30	209 Lbs/Dav	209 lbs/Day	313 Lbs/day
Wed, Jan 10	3.508	7.0	205	6.0	176			7.53					NH3	111311819		11230.00
Thu, Jan 11	3.328							7.68					Oct.1 - Mar.			
Fri, Jan 12	2.976							7.66					31	3.3 Mg/L	3.3 Mg/l	5.7 Mg/L
Sat, Jan 13	3.082							7.60					Apr. 1 -	0.514.0	0514.4	5714.4
Sun, Jan 14	2.911							7.56					May 31	2.5 Mg/L	2.5 Mg/l	5.7 Mg/l
Mon, Jan 15	2.829							7.74					June1 -	4011.0	4014	4511.0
Tue, Jan 16	2.532							7.87	3				Sept. 30	1.0 Mg/L	1.0 Mg/L	1.5 Mg/L
Wed, Jan 17	3.172	4.0	106	2.0	53			7.43					Total Phps	phorus		
Thu, Jan 18	3.582							7.51					Apr.1 -	0.014-0	*********	**********
Fri, Jan 19	3.500							7.50					Oct.31	0.2 Mg/L		
Sat, Jan 20	3.209							7.43					Nov. 1 -	4.0 Mail	*******	**********
Sun, Jan 21	2.930							7.49					Mar. 31	1.0 Mg/L		
Mon, Jan 22	2.824							7.73	28				Ph			
Tue, Jan 23	2.956							7.55						6.5	- 8.3	
Wed, Jan 24	3.116	9.0	234	5.0	130			7.43					E. Coli			
Thu, Jan 25	3.381							7.31					******	126	*********	409
Fri, Jan 26	4.084							7.32						CFU/100ml		CFU/100ml
Sat, Jan 27	3.537							7.23					Aluminum			
Sun, Jan 28	3.568							7.21					******	88 ug/l	*********	*********
Mon, Jan 29	3.545							7.27					Copper			
Tue, Jan 30	3.689							7.30	20							
Wed, Jan 31	3.624	9.0	272	6.0	181	1.50	0.27	7.28								
Daily Max	4.084	9.00	272.02	6.00	181.34	1.50	0.27	7.87	326.00	******	******	******	May 1 - Sept. 30		> 7.4 mg/L	
Daily Min.	2.532	*******	********	******	******	******	******	7.21	*******	*******	******		Chall, All	Plant	t Flow	
Month Avg.	3.179	7.60	207.00	5.00	137.00	1.00	0.20	7.46	36	5	3.0	******		2.5	MGD	

6.0 ENERGY CONSUMPTION

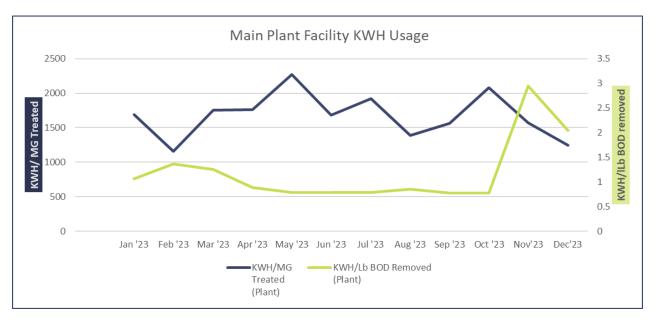
6.1 ELECTRICAL OVERVIEW

The department used a total of **154556** *KWH* for the month of January 2024. Of this total, the lift stations accounted for **12.3%**, using **18,956** KWH. The Main Plant accounted for the remaining **135,600** KWH. The KWH/ MG treated was **2,083** for the month and the KWH/Lb. BOD Removed was **2.04** KWH/Lb. for the month.

	Monthly Energy Consumption										
Month	Plant Average Daily Flow (NO HFMP)	Plant Total Influent Flow	Plant KWH (Total Billed)	KWH/MG Treated (Plant)	Plant Lbs BOD Removed	KWH/Lb BOD Removed (Plant)	Off Peak Demand (Plant)	Peak Demand (Plant)	Total Lift Station KWH	Total KWH (Plant & Stations)	
	MGD	MG	KWH	KWH/MG	Lbs	KWH/Lb	KW	KW	KWH	KWH	
Jan '23	4.08	126.55	134,400	1,062	126,998	1.06	252	258	16,712	142,112	
Feb '23	2.94	82.38	125,400	1,522	92,522	1.36	213	210	16,322	145,922	
Mar '23	3.33	103.31	129,600	1,254	103,530	1.25	204	213	15,893	132,293	
Apr '23	2.59	77.57	116,400	1,501	130,686	0.89	198	210	12,637	131,437	
May '23	2.5	77.4	118,800	1,535	151,100	0.79	183	189	12,127	130,327	
Jun '23	1.73	52.04	118,200	2,271	149,709	0.79	183	201	12,127	130,327	
Jul '23	2.07	64.26	108,300	1,685	137,511	0.79	222	231	10,113	118,413	
Aug '23	2.02	62.74	120,600	1,922	142,457	0.85	192	201	10,893	131,493	
Sep '23	2.53	75.95	105,300	1,386	134,488	0.78	195	213	10,331	115,631	
Oct '23	2.16	67	104,700	1,563	134,616	0.78	195	201	13,297	117,997	
Nov'23	2.07	62.06	129,300	2,083	43,777	2.95	207	234	15,313	144,613	
Dec'23	2.79	86.49	135,600	1,568	66,318	2.04	261	273	18,956	154,556	
Average	2.57	78.15	120,550	1,613	117,809	1.19	209	220	13,727	132,927	



						Monthly	Lift Statio	n KWH						
Month	Hingham North	Hingham South	Spruce	Butternut	Old Country Way	Market	Woodsbury	Lincoln	Forest	Wheeler	Summer	Milbrook	John Burke	Total
Jan '23	3,577	6,500	145	90	1,802	924	1,848	341	2,466	123	62	1,863	308	20,049
Feb '23	3,039	5,000	141	70	1,281	862	1,440	325	2,187	227	59	1,749	332	16,712
Mar'23	2,995	5,100	246	434	1,260	851	1,353	283	1,915	58	67	1,524	236	16,322
Apr '23	3,531	4,100	176	0	1,174	781	1,447	311	2,179	82	65	1,922	125	15,893
May '23	2,373	3,800	114	69	956	695	1,034	201	1,587	57	59	1,459	233	12,637
Jun '23	2,040	4,200	145	62	887	409	1,116	186	1,714	65	63	1,064	176	12,127
Jul '23	1,810	3,600	157	57	897	306	868	156	1,159	56	58	891	98	10,113
Aug '23	2,145	3,400	109	58	911	313	838	163	1,933	59	56	818	90	10,893
Sep '23	1,646	3,400	226	53	911	403	967	188	1,478	56	52	874	77	10,331
Oct '23	2,204	3,700	151	60	1,003	792	1,523	257	1,894	91	61	1,389	172	13,297
Nov '23	2,498	4,700	202	64	1,158	886	1,199	337	2,420	65	62	1,488	234	15,313
Dec'23	3,114	6,100	271	83	1,385	1,032	1,648	365	2,724	65	70	1,846	253	18,956
Average	2,581	4,467	174	92	1,135	688	1,273	259	1,971	84	61	1,407	195	14,387



7.0 MAINTENANCE

7.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	181	1,221
Corrective Maintenance	13	113
Emergency Call Outs Total	6	33

7.2 EMERGENCY CALL OUTS FOR THE MONTH

Туре	Total this Month	Total this Year
Sewer Back Up / Collection System	1	3
Pump Station	1	18
Plant	4	8
Odor	0	0
Power Outages	2	3
Total:	8	232

7.3 INSPECTIONS / ANNUAL PMS COMPLETED DURING THE MONTH

- 1. All pump station alarms checked
- 2. Eye wash inspections completed weekly
- 3. Fire extinguisher inspections completed monthly
- 4. Dependable Petroleum monthly UST Inspection
- 5. Appollo Safety Quarterly Inspection

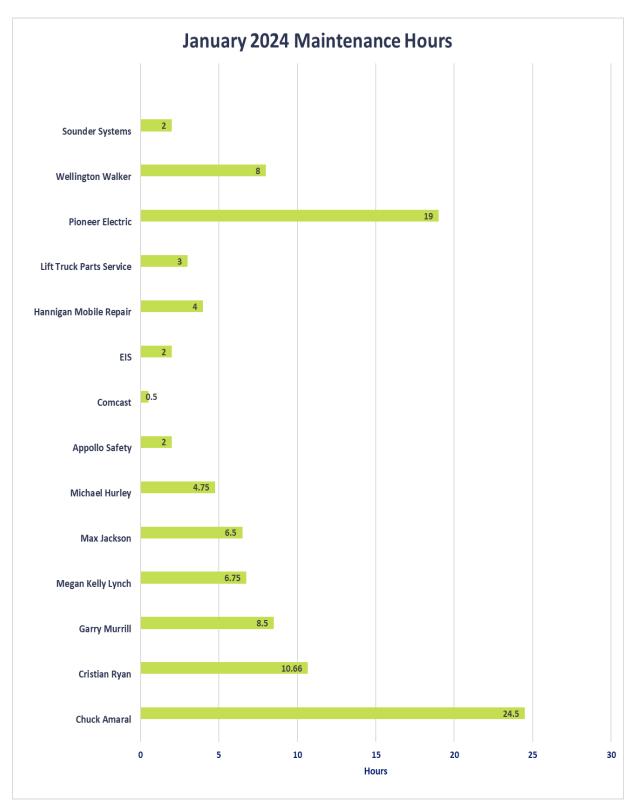
7.4 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

COLLECTION SYSTEM ASSITANCE:

Туре	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	0	1
Sewer Location mark Outs	50	414
Sewer Back Up	0	1

7.5 WORK ORDER STATISTICS

There were 102.16 total reported maintenance hours during the month. Of this total, outside contractors accounted for 40% with **40.5** hours recorded.



8.0 FINANCIAL ACCOUNTING- REPAIR / MAINTENANCE (JULY '23 – JUNE '24)

Item	Budget	Spent Month	1	Remaining
R & M (Project)	\$100,000.00	\$11,249.39	\$63,812.82	\$36,187.18

8.1 SIGNIFICANT R&M PURCHASES

- 1. Purchased Bisulfite Flow Meter from TI Sales \$1,017.00
- 2. Hannigan Enterprise repaired Godwin Pump Serpentine Belt \$1,451.79
- 3. 400 Amp Breaker Tripped that Pioneer Electric rerouted to fix \$1,317.00
- 4. Fork Lift was to repaired through Lift Trucks & Services \$1,147.77

9.0 ATTACHED REPORTS

- Discharge Monitoring Report
- HACH Wims Data Reports
- Cumulative and Monthly Violation Reports
- Financial Reports
- Solids Removal Summary